

Abstract

An audio decoding device is provided for decoding N_A (where $N_A > 1$) channels of audio signals by a sub-band synthesis operation using sub-band synthesis filter data and sub-band signal data. The decoding device includes a first memory section for storing M_A (where $M_A < N_A$) channels of the sub-band synthesis filter data and the sub-band signal data, a second memory section for storing at least some of N_A channels, an operation section for receiving encoded audio data and decoding the encoded audio data into sub-band signal data, and a data transfer section for, switching, by M_A channels, the sub-band synthesis filter data and the sub-band signal data in the first memory section and the second memory section.